Tanezzuft-Oued Mya Structural/Stratigraphic, Assessment Unit 20540101 Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

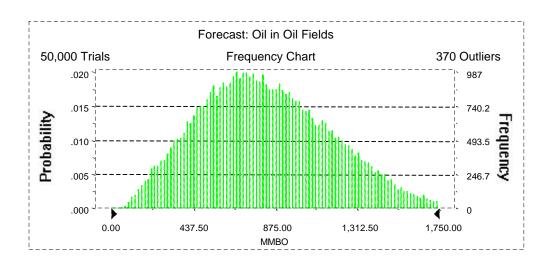
Field	MFS					_	Uı	ndiscovere	d Resource	es					Lar	gest Undisc	covered Fig	eld
Field Type		Prob.	Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	10	1.00	292	802	1,450	830	233	673	1,355	720	9	26	58	29	40	96	255	114
Gas Fields	60						269	1,417	3,640	1,621	13	69	192	81	111	318	1,030	405
Total		1.00	292	802	1,450	830	502	2,090	4,994	2,341	21	95	250	110				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 1,750.00 MMBO Entire range is from 57.81 to 2,426.66 MMBO After 50,000 trials, the standard error of the mean is 1.58

Statistics:	<u>Value</u>
Trials	50000
Mean	830.20
Median	802.22
Mode	
Standard Deviation	352.98
Variance	124,593.54
Skewness	0.37
Kurtosis	2.77
Coefficient of Variability	0.43
Range Minimum	57.81
Range Maximum	2,426.66
Range Width	2,368.85
Mean Standard Error	1.58



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

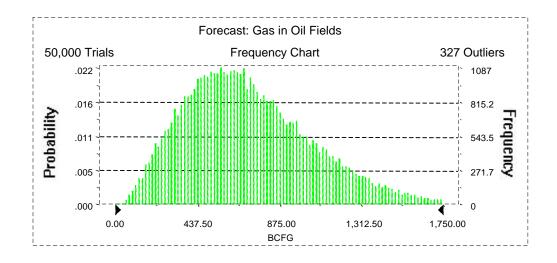
<u>Percentile</u>	MMBO
100%	57.81
95%	292.18
90%	386.24
85%	456.14
80%	515.27
75%	567.64
70%	617.37
65%	665.00
60%	710.04
55%	755.53
50%	802.22
45%	849.01
40%	899.67
35%	951.57
30%	1,006.35
25%	1,067.02
20%	1,137.33
15%	1,215.46
10%	1,312.05
5%	1,450.04
0%	2,426.66

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 1,750.00 BCFG Entire range is from 35.27 to 2,696.55 BCFG After 50,000 trials, the standard error of the mean is 1.54

Statistics:	<u>Value</u>
Trials	50000
Mean	719.56
Median	673.05
Mode	
Standard Deviation	344.98
Variance	119,008.17
Skewness	0.71
Kurtosis	3.45
Coefficient of Variability	0.48
Range Minimum	35.27
Range Maximum	2,696.55
Range Width	2,661.28
Mean Standard Error	1.54



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

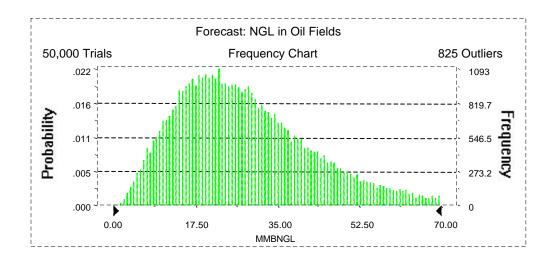
<u>Percentile</u>	<u>BCFG</u>
100%	35.27
95%	233.43
90%	310.35
85%	368.91
80%	419.57
75%	464.06
70%	507.40
65%	548.97
60%	590.30
55%	631.60
50%	673.05
45%	716.60
40%	761.88
35%	813.30
30%	867.10
25%	929.82
20%	999.00
15%	1,084.76
10%	1,192.76
5%	1,354.52
0%	2,696.55

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 70.00 MMBNGL Entire range is from 1.19 to 124.14 MMBNGL After 50,000 trials, the standard error of the mean is 0.07

Statistics:	<u>Value</u>
Trials	50000
Mean	28.80
Median	26.22
Mode	
Standard Deviation	15.29
Variance	233.83
Skewness	0.99
Kurtosis	4.30
Coefficient of Variability	0.53
Range Minimum	1.19
Range Maximum	124.14
Range Width	122.95
Mean Standard Error	0.07



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

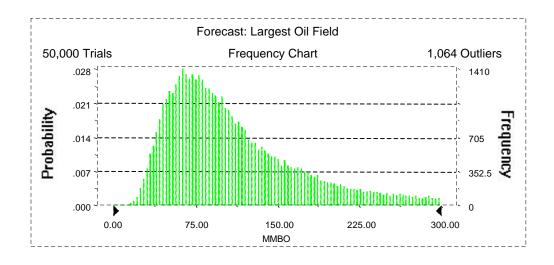
<u>Percentile</u>	<u>MMBNGL</u>
100%	1.19
95%	8.65
90%	11.55
85%	13.91
80%	15.81
75%	17.57
70%	19.29
65%	21.00
60%	22.69
55%	24.41
50%	26.22
45%	28.11
40%	30.01
35%	32.15
30%	34.52
25%	37.19
20%	40.35
15%	44.27
10%	49.44
5%	57.97
0%	124.14

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 300.00 MMBO Entire range is from 13.48 to 361.84 MMBO After 50,000 trials, the standard error of the mean is 0.29

Statistics:	<u>Value</u>
Trials	50000
Mean	113.68
Median	96.07
Mode	
Standard Deviation	65.48
Variance	4,287.69
Skewness	1.31
Kurtosis	4.54
Coefficient of Variability	0.58
Range Minimum	13.48
Range Maximum	361.84
Range Width	348.36
Mean Standard Error	0.29



Forecast: Largest Oil Field (cont'd)

Percentiles:

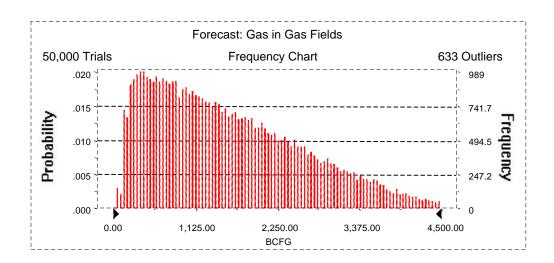
Percentile	ММВО
100%	13.48
95%	40.36
90%	48.35
85%	54.87
80%	60.99
75%	66.47
70%	72.04
65%	77.77
60%	83.33
55%	89.60
50%	96.07
45%	102.97
40%	110.75
35%	119.69
30%	130.48
25%	143.14
20%	158.82
15%	178.12
10%	206.22
5%	254.60
0%	361.84

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 4,500.00 BCFG Entire range is from 60.69 to 7,529.41 BCFG After 50,000 trials, the standard error of the mean is 4.83

Statistics:	<u>Value</u>
Trials	50000
Mean	1,621.07
Median	1,416.79
Mode	
Standard Deviation	1,079.90
Variance	1,166,190.09
Skewness	0.84
Kurtosis	3.39
Coefficient of Variability	0.67
Range Minimum	60.69
Range Maximum	7,529.41
Range Width	7,468.72
Mean Standard Error	4.83



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

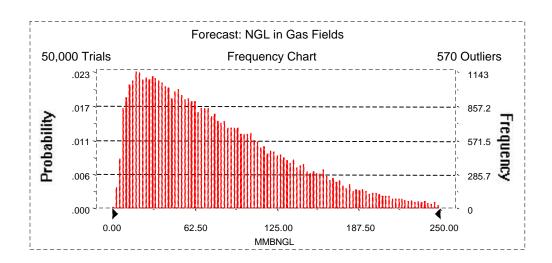
<u>Percentile</u>	<u>BCFG</u>
100%	60.69
95%	268.82
90%	385.38
85%	501.94
80%	622.35
75%	743.49
70%	865.83
65%	995.91
60%	1,129.87
55%	1,268.50
50%	1,416.79
45%	1,571.16
40%	1,736.59
35%	1,909.64
30%	2,096.04
25%	2,309.31
20%	2,539.35
15%	2,809.57
10%	3,156.91
5%	3,639.63
0%	7,529.41

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 250.00 MMBNGL Entire range is from 1.84 to 467.81 MMBNGL After 50,000 trials, the standard error of the mean is 0.26

Statistics:	<u>Value</u>
Trials	50000
Mean	81.16
Median	68.50
Mode	
Standard Deviation	57.67
Variance	3,325.29
Skewness	1.10
Kurtosis	4.37
Coefficient of Variability	0.71
Range Minimum	1.84
Range Maximum	467.81
Range Width	465.97
Mean Standard Error	0.26



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

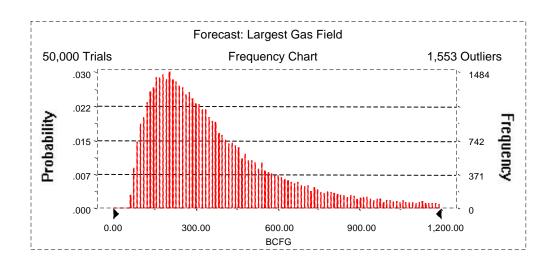
<u>Percentile</u>	MMBNGL
100%	1.84
95%	12.77
90%	18.61
85%	24.17
80%	29.95
75%	35.66
70%	41.58
65%	48.03
60%	54.44
55%	61.23
50%	68.50
45%	76.03
40%	84.41
35%	93.46
30%	103.26
25%	113.89
20%	126.71
15%	142.13
10%	161.48
5%	191.96
0%	467.81

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 1,200.00 BCFG Entire range is from 60.69 to 1,999.51 BCFG After 50,000 trials, the standard error of the mean is 1.35

Statistics:	<u>Value</u>
Trials	50000
Mean	405.22
Median	317.67
Mode	
Standard Deviation	301.96
Variance	91,180.42
Skewness	1.98
Kurtosis	7.87
Coefficient of Variability	0.75
Range Minimum	60.69
Range Maximum	1,999.51
Range Width	1,938.82
Mean Standard Error	1.35



Forecast: Largest Gas Field (cont'd)

Percentiles:

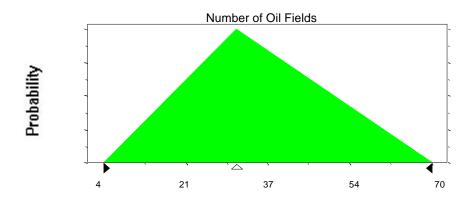
Doroontilo	PCEC.
<u>Percentile</u>	<u>BCFG</u>
100%	60.69
95%	111.18
90%	137.72
85%	160.19
80%	181.14
75%	202.02
70%	222.57
65%	244.64
60%	267.53
55%	291.35
50%	317.67
45%	344.87
40%	375.66
35%	411.91
30%	453.65
25%	504.35
20%	567.84
15%	653.84
10%	783.54
5%	1,029.57
0%	1,999.51

Assumptions

Assumption: Number of Oil Fields

Minimum	4
Likeliest	31
Maximum	70

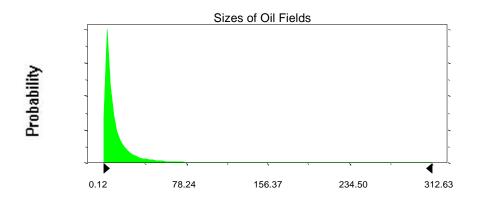
Selected range is from 4 to 70 Mean value in simulation was 35



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	14.30	24.3
Standard Deviation	30.92	30.92
Selected range is from 0.00 to 352.00		10.00 to 362.00
Mean value in simulation was 13.70	23.7	

Assumption: Sizes of Oil Fields (cont'd)



Assumption: GOR in Oil Fields

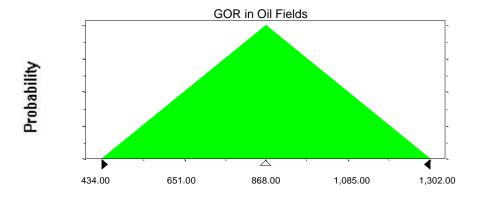
Triangular distribution with parameters:

 Minimum
 434.00

 Likeliest
 868.00

 Maximum
 1,302.00

Selected range is from 434.00 to 1,302.00 Mean value in simulation was 866.89

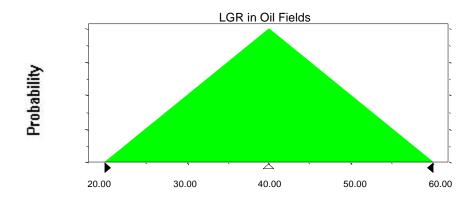


Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum 20.00 Likeliest 40.00 Maximum 60.00

Selected range is from 20.00 to 60.00 Mean value in simulation was 40.01



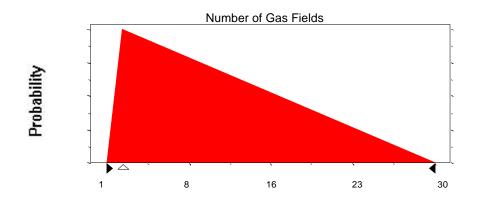
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum 1 Likeliest 2 Maximum 30

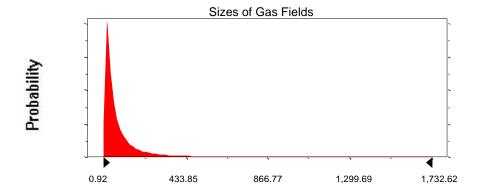
Selected range is from 1 to 30 Mean value in simulation was 11

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	88.05	148.05
Standard Deviation	172.65	172.65
Selected range is from 0.00 to 1,	60.00 to 2,000.00	
Mean value in simulation was 84	144.53	

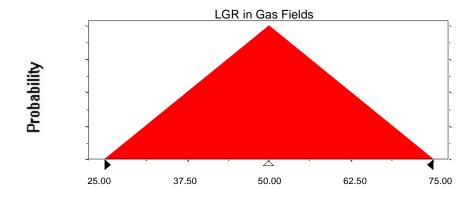


Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	25.00
Likeliest	50.00
Maximum	75.00

Selected range is from 25.00 to 75.00 Mean value in simulation was 50.09



End of Assumptions

Simulation started on 12/1/98 at 16:12:21 Simulation stopped on 12/1/98 at 16:39:25